

Build resilient infrastructure,
promote inclusive and
sustainable industrialization
and foster innovation

LEARNING AND STUDENTS

Reverse Engineering Hackathon

The Center for Youth Innovative Creativity "Baikal" and the Center "Robotics" of INRTU held a hackathon on reverse engineering "3dimension - 2021". 72 participants registered for the reverse engineering hackathon. The event was held in a mixed format – online and in person at the Boiling Point of Irkutsk Polytechnic University. Future developers created four 3D models based on drawings and a text description, and then carried out the assembly.



Motivating for project activity



EFKO Group of Company awarded the winners of the micro-projects competition from INRTU. About 50 students participated in this competition. During a month, students competed in five competencies: management and quality system, engineering, technology and innovation, construction and labor protection.

All the joint activity of both organizations INRTU and EFKO is aimed at the search and development of talented and promising youth through design and research projects. Also students can choose any of the agricultural holding enterprises for internship, preparing course and diploma projects. The company produces sunflower oil, sauces and margarine for industrial processors, as well as feed proteins. Annually EFKO produces 2.5 million tons of products at 14 plants located in Russia and Kazakhstan. Products under the brands "Sloboda", ALTERO and VIOLIO are exported to 50 countries.

RESEARCH

46

Number of university
spin-offs

₽297 813 600

Research income from
industry and commerce by
subject area: STEM

₽9 530 500

Research income from industry and
commerce by subject area: Arts &
Humanities / Social Sciences

₽307 344 100

Research income from industry
and commerce



Contest for professors

INRTU Ass. Professor Igor Bobarika won the regional stage of the XXII All-Russian competition "Engineer of the Year - 2021". The jury highly appreciated his developments in the field of hydraulics, which were introduced into production by the Irkutsk Plant of road machines. The contest brought together about a thousand people. The experts took into account the professional and scientific achievements of the applicants, their real contribution to the development of



industry.. Igor Babarika is known to Russian and foreign colleagues as the creator of the drone (a hybrid of a drone, catamaran and airship) and the Flying Man drone. Currently, he is improving the design of elements of aviation systems, experimenting with polymer composite materials based on carbon fiber. Students and postgraduates are involved in the projects. in the Baikal region

PUBLIC ENGAGEMENT

Digital engineering of the future

For those who wants to be on the wave with digital engineering technologies our university successfully launched a new career guidance project. These are the series of educational meetings of representatives of business and Irkutsk schoolchildren of grades 8-11, helping to see: where advanced technologies in Russia and in the world are used now; how the digitalization of engineering industries is taking place on the example of enterprises in our country; from whom it can be learned. At the end of the project the participants were ready to answer the main question: "Who do I see myself as TOMORROW in the digital world" and get a free ticket to the Summer specialized schools of INRTU.

Joint Acceleration program

An educational seminar for managers of the East Siberian Railway was organized in our university together with the Baikal Region Development Center. The event was held to form professional competencies for working with the internal and external innovation environment, startup projects, requests and searches for innovative solutions. The educational intensive brought together about 40 railway workers.

OPERATIONS

Innovative devices for public access

By the way, students of Irkutsk Polytechnic University are given the opportunity to freely come to these centers and use computers, a 3D printer, a laser cutter and other hand tools for free. Specialists of university departments can carry out simple orders on the necessary equipment, including CNC lathes and milling machines.

Scientific and Technical Forum - Geosciences-2021

"Geosciences" is a traditional scientific and technical forum bringing together over 100 students, postgraduates, researchers and specialists. In April of this year, the event was held in a mixed format with the participation of researchers from Irkutsk, Krasnoyarsk, Moscow and China. They discussed the problems of geology, mathematical modeling and exploration geophysics, mining and oil and gas business. The sectional session "Artistic processing of materials" was headed by Professor of the Depa